

## PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF ELECTION  
(PCT Rule 61.2)Date of mailing (day/month/year)  
23 May 2000 (23.05.00)To:  
  
Assistant Commissioner for Patents  
United States Patent and Trademark  
Office  
Box PCT  
Washington, D.C.20231  
ETATS-UNIS D'AMERIQUE

in its capacity as elected Office

International application No.  
PCT/CA99/00951Applicant's or agent's file reference  
T8464540WOInternational filing date (day/month/year)  
15 October 1999 (15.10.99)Priority date (day/month/year)  
16 October 1998 (16.10.98)

## Applicant

KERR, John, Hugh

1. The designated Office is hereby notified of its election made:

 in the demand filed with the International Preliminary Examining Authority on:

08 May 2000 (08.05.00)

 in a notice effecting later election filed with the International Bureau on:

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2. The election
- 
- was

 was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO  
34, chemin des Colombettes  
1211 Geneva 20, Switzerland

Authorized officer

Claudio Borton

Facsimile No.: (41-22) 740.14.35

Telephone No.: (41-22) 338.83.38

**PATENT COOPERATION TREATY**  
**PCT**

**INTERNATIONAL SEARCH REPORT**

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>T8464540W0</b>	<b>FOR FURTHER ACTION</b> see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. <b>PCT/CA 99/ 00951</b>	International filing date (day/month/year) <b>15/10/1999</b>	(Earliest) Priority Date (day/month/year) <b>16/10/1998</b>
Applicant <b>KER-TRAIN HOLDINGS LTD. et al.</b>		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 05 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

- a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

- the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).
- b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing :
- contained in the international application in written form.
  - filed together with the international application in computer readable form.
  - furnished subsequently to this Authority in written form.
  - furnished subsequently to this Authority in computer readable form.
  - the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
  - the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2.  Certain claims were found unsearchable (See Box I).

3.  Unity of invention is lacking (see Box II).

4. With regard to the title,

- the text is approved as submitted by the applicant.
- the text has been established by this Authority to read as follows:

5. With regard to the abstract,

- the text is approved as submitted by the applicant.
- the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No.

- as suggested by the applicant.
- because the applicant failed to suggest a figure.
- because this figure better characterizes the invention.

2

None of the figures.

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/CA 99/00951

## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
  
2.  Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
  
3.  Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1.  As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
  
2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
  
3.  As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
  
4.  No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

### Remark on Protest

- The additional search fees were accompanied by the applicant's protest.
- No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-24,25,26

Infinitely variable transmission using a pair of variable velocity gears sets and a multidirectional coupling associated with the gear sets which can connect them to a rotational member, wherein the coupling is controlled to connect the gear sets to the rotational member over a common angular period

2. Claims: 27-31

Actuator for transmitting power between a pair of rotational drive members.

3. Claims: 32-35

Method for defining tooth flanges on pairs of meshing noncircular gears

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/NL 99/00951

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 F16H3/42 F16H55/08

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 F16H F16D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2 239 313 A (BESCHKINE LÉON) 22 April 1941 (1941-04-22) cited in the application the whole document ---	1,25,26
P, A	WO 99 28645 A (KERR JOHN HUGH) 10 June 1999 (1999-06-10) cited in the application the whole document ---	1,25,26
A	US 3 919 895 A (KERR JOHN HUGH) 18 November 1975 (1975-11-18) the whole document & CA 1 000 526 A cited in the application ---	1,2,25, 26
		-/-

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

## ° Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

24 May 2000

Date of mailing of the international search report

31 05. 2000

Name and mailing address of the ISA  
European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
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Fax: (+31-70) 340-3016

Authorized officer

Van Prooijen, T

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/99/00951

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 732 319 A (WALLACE & TIERNAN INC.) 22 June 1955 (1955-06-22) the whole document ---	27
A		28
X	FR 2 546 598 A (CHERPIN JEAN) 30 November 1984 (1984-11-30) figure 1 ---	27
A	GB 374 547 A (BOLTON ARTHUR) 16 June 1932 (1932-06-16) figures 1-4 ---	27-31
A	HINDERSMANN M ET AL: "UNRUNDE ZAHNRAEDER - EIN WIEDERENTDECKTES MASCHINENELEMENT" KONSTRUKTION, DE, SPRINGER-VERLAG. BERLIN, vol. 48, no. 9, 1 January 1996 (1996-01-01), pages 256-262, XP000195424 ---	32-35
A	US 3 721 131 A (INGHAM J) 20 March 1973 (1973-03-20) the whole document ---	32
A	WO 88 02081 A (BOUCHET JACQUES) 24 March 1988 (1988-03-24) claim 1; figures 1,2 -----	32

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International Application No

PCT/ [REDACTED] 99/00951

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
US 2239313	A 22-04-1941	NONE		
WO 9928645	A 10-06-1999	AU 1220999 A		16-06-1999
		AU 1221099 A		16-06-1999
		AU 1327999 A		16-06-1999
		WO 9928644 A		10-06-1999
		WO 9928659 A		10-06-1999
US 3919895	A 18-11-1975	CA 1000526 A		30-11-1976
		AU 7363274 A		01-04-1976
		BE 820376 A		16-01-1975
		DE 2446036 A		27-03-1975
		ES 430434 A		01-02-1977
		FR 2244940 A		18-04-1975
		GB 1488673 A		12-10-1977
		JP 50077759 A		25-06-1975
		SE 399749 B		27-02-1978
		SE 7412013 A		27-03-1975
		ZA 7405902 A		31-12-1975
GB 732319	A	NONE		
FR 2546598	A 30-11-1984	NONE		
GB 374547	A	NONE		
US 3721131	A 20-03-1973	NONE		
WO 8802081	A 24-03-1988	FR 2603681 A		11-03-1988
		AT 47903 T		15-11-1989
		DE 3760975 D		14-12-1989
		EP 0281588 A		14-09-1988
		JP 1500846 T		23-03-1989
		US 4867002 A		19-09-1989

**ENT COOPERATION TREATY**

From the  
INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To:

IMAI, Jeffrey T. MAGNA INTERNATIONAL INC.  
MAGNA INTERNATIONAL INC. TRADEMARK DEPARTMENT  
337 Magna Drive RECEIVED  
Aurora, Ontario L4G 7K1 JAN 05 2001  
CANADA

DOCKETED 701493 PCT

**PCT**

NOTIFICATION OF TRANSMITTAL OF  
THE INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT

(PCT Rule 71.1)

Date of mailing (day/month/year)	22.12.2000
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Applicant's or agent's file reference  
701493PCT

**IMPORTANT NOTIFICATION**

International application No. PCT/CA99/00951	International filing date (day/month/year) 15/10/1999	Priority date (day/month/year) 16/10/1998
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Applicant  
KER-TRAIN HOLDINGS LTD. et al.

1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

**4. REMINDER**

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/  European Patent Office - P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016	Authorized officer  Daniels, H  Tel. +31 70 340-3718	
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# PATENT COOPERATION TREATY

## PCT

### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 701493PCT	<b>FOR FURTHER ACTION</b>	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)
International application No. PCT/CA99/00951	International filing date (day/month/year) 15/10/1999	Priority date (day/month/year) 16/10/1998
International Patent Classification (IPC) or national classification and IPC F16H35/00		
Applicant KER-TRAIN HOLDINGS LTD. et al.		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 9 sheets, including this cover sheet.

This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of sheets.

3. This report contains indications relating to the following items:

- I     Basis of the report
- II     Priority
- III     Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV     Lack of unity of invention
- V     Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI     Certain documents cited
- VII     Certain defects in the international application
- VIII     Certain observations on the international application

Date of submission of the demand 08/05/2000	Date of completion of this report 22.12.2000
Name and mailing address of the International preliminary examining authority:  European Patent Office - P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016	Authorized officer  Van Prooijen, T Telephone No. +31 70 340 3180



**INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT**

International application No. PCT/CA99/00951

**I. Basis of the report**

1. This report has been drawn on the basis of (*substitute sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments (Rules 70.16 and 70.17.)*):

Description, pages:

1-18 as originally filed

Claims, No.:

1-35 as originally filed

Drawings, sheets:

1/38-38/38 as originally filed

2. With regard to the **language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language: , which is:

- the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).
- the language of publication of the international application (under Rule 48.3(b)).
- the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- contained in the international application in written form.
- filed together with the international application in computer readable form.
- furnished subsequently to this Authority in written form.
- furnished subsequently to this Authority in computer readable form.
- The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. The amendments have resulted in the cancellation of:

- the description,        pages:
- the claims,        Nos.:

**INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT**

International application No. PCT/CA99/00951

- the drawings,      sheets:
5.  This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)):  
*(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)*
6. Additional observations, if necessary:

**IV. Lack of unity of invention**

1. In response to the invitation to restrict or pay additional fees the applicant has:
- restricted the claims.
- paid additional fees.
- paid additional fees under protest.
- neither restricted nor paid additional fees.
2.  This Authority found that the requirement of unity of invention is not complied and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees.
3. This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is
- complied with.
- not complied with for the following reasons:  
**see separate sheet**
4. Consequently, the following parts of the international application were the subject of international preliminary examination in establishing this report:
- all parts.
- the parts relating to claims Nos. 1-24,25,26.

**V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;  
citations and explanations supporting such statement**

1. Statement

Novelty (N)	Yes: Claims 1-24,25,26
	No: Claims
Inventive step (IS)	Yes: Claims 1-24,25,26
	No: Claims

**INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT**

International application No. PCT/CA99/00951

Industrial applicability (IA) Yes: Claims 1-24,25,26  
No: Claims

**2. Citations and explanations  
see separate sheet**

**VII. Certain defects in the international application**

The following defects in the form or contents of the international application have been noted:  
**see separate sheet**

**VIII. Certain observations on the international application**

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:  
**see separate sheet**

**INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT - SEPARATE SHEET**

International application No. PCT/CA99/00951

**Re Item IV**

**Lack of unity of invention**

US-A-2 239 313 (hereinafter referred to as D1) discloses:

an infinitely variable transmission (see description of D1) comprising a rotational input member (M) and a rotational output member (R);  
a pair of variable velocity-ratio gear sets (1-1', 3-3' and 2-2', 4-4');  
a multi-directional coupling (e1, e2, e3, e4) associated with the gear sets;  
an actuator associated with the coupling(s) for coupling the gear sets to the rotational members for providing a uniform velocity ratio between the rotational members;  
a phase angle variator (L, P, m1, m2) associated with at least one of the gear sets for varying a rotational angular displacement between the gear sets for varying the uniform velocity ratio.

D1 can also be said to constitute an all gear transmission comprising:  
a rotational input member (M) and a rotational output member (R);  
a pair of variable velocity-ratio gear sets (1-1', 3-3' and 2-2', 4-4') being phased though a rotational phase angle;  
a multi-directional coupling (e1, e2, e3, e4) associated with the gear sets; and  
an actuator associated with the coupling(s) for coupling the gear sets to the rotational members for providing a uniform velocity ratio between the rotational members, the uniform velocity being dependent upon the rotational phase angle.

D1 also shows an actuator for transmitting power between a pair of rotational drive members over an angular portion of a revolution of one of the drive members, a first of the drive members including a drive element and a second of the drive members including a driven element.

The subject matter of group/subject 1 (claims 1-24, 25, 26) differs from the above in that the coupling serves the purpose of coupling the gear sets to the rotational members over a COMMON angular period.

Problem solved: to further develop the known coupling control principle

**INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT - SEPARATE SHEET**

International application No. PCT/CA99/00951

Special technical feature 1: The feature that the coupling serves the purpose of coupling the gear sets to the rotational members over a COMMON angular period.

The subject matter of group/subject 2 (claims 27-31) differs from the above as a result of the stated further details specified in the claim 27 on the (mechanical/kinematical) construction of the actuator.

Problem solved: to construct a mechanical actuator for the coupling function known from D1 (D1 discloses the possibility of a mechanical actuator, but does not give details as to its construction)

Special technical feature 2: The additional features of claim 27 as to the construction and operation of the actuator have to be considered as a contribution over the prior art.

The subject matter of group/subject 3 (claims 32-35) differs from the above in that it concerns a method for defining tooth flanges, where D1 does not refer to such a method.

Problem solved: how to define tooth flanges of meshing non-circular gears

Special technical feature 3: all features of independent claim 32 are considered to form a contribution over prior art D1

Although one might define a common general concept as aiming to further develop the type of infinitely variable transmission of the type described in the application which applies pairs of meshing non-circular gears, such a concept is not new and therefore cannot bear the label "inventive" as required by Rule 13.1 PCT.

The problem underlying the subjects of the three groups/claimed inventions mentioned above, nor their solutions defined by the (special) technical features (w.r.t. the prior art constituted by D1), mentioned above allow for a relationship to be established between the said inventions.

The three groups of claims are not linked by common or corresponding special

**INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT - SEPARATE SHEET**

International application No. PCT/CA99/00951

technical features and define three inventions not linked by a single general inventive concept.

The application hence does not meet the requirements of Unity of Invention as defined in Rule 13(1) & (2) PCT.

In order to overcome the objection under Rule 13(1) & (2) PCT the claims of group/subject 2 (claims 27 - 31) and the claims of group/subject 3 (claims 32 - 35) could have been reformulated to include the features of group/subject 1 (or at least claim 1), that is, reformulated as claims dependent on (a) claim(s) of group/subject 1.

**Re Item V**

**Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

Subject: Infinitely variable ratio transmission

Closest prior art: US-A-2 239 313, cited in the description

Problem: To further develop the known construction

Solution: By engaging the coupling to create an "overlapping" use of two consecutively applied gear sets ("a common angular period").

This feature is not known from the closest prior art: this document even explicitly states that one coupling will be disengaged at the instant where the next one is put into service.

Thus independent claims 1, 25, 26 and dependent claims 2 - 24 meet the requirements of Articles 33(2) and 33(3) PCT.

**Re Item VII**

**Certain defects in the international application**

**INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT - SEPARATE SHEET**

International application No. PCT/CA99/00951

1. Independent claim(s) 1 (and 25 and 26, see also section VIII below) is/are not in the two-part form in accordance with Rule 6.3(b) PCT, which in the present case would be appropriate, with those features known in combination from the prior art (document US-A-2 239 313, hereinafter referred to as D1) being placed in the preamble (Rule 6.3(b)(i) PCT) and with the remaining features being included in the characterising part (Rule 6.3(b)(ii) PCT).

In the present case, the following features (of the present claim 1) are known in combination from the document D1 and belong in the preamble of such a claim:

- an infinitely variable transmission (see description of D1) comprising a rotational input member (M) and a rotational output member (R);
- a pair of variable velocity-ratio gear sets (1-1', 3-3' and 2-2', 4-4');
- a multi-directional coupling (e1, e2, e3, e4) associated with the gear sets;
- an actuator associated with the coupling(s) for coupling the gear sets to the rotational members for providing a uniform velocity ratio between the rotational members;
- a phase angle variator (L, P, m1, m2) associated with at least one of the gear sets for varying a rotational angular displacement between the gear sets for varying the uniform velocity ratio.

Any independent claim (see also section VIII below) should therefore have been redrafted accordingly (features known from the closest prior art placed in the preamble).

The applicant has not provided reasons why the claim should not be in the two-part form. Neither did he clearly indicate in the description which features of the subject-matter of claims 1, 25 and 26 are already known from document D1; see the PCT Guidelines, III-2.3a.

**Re Item VIII**

**Certain observations on the international application**

1. Although claims 1 and 25 have been drafted as separate independent claims, they

**INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT - SEPARATE SHEET**

International application No. PCT/CA99/00951

appear to relate effectively to the same subject-matter and to differ from each other only with regard to the definition of the subject-matter for which protection is sought and/or in respect of the terminology used for the features of that subject-matter. The aforementioned claims therefore lack conciseness. Moreover, lack of clarity of the claims as a whole arises, since the plurality of independent claims makes it difficult, if not impossible, to determine the matter for which protection is sought, and places an undue burden on others seeking to establish the extent of the protection.

Hence, claims 1 and 25 do not meet the requirements of Article 6 PCT.

It would appear that claim 25 is redundant, so that it could have been deleted to overcome the above objection. If the applicant would have been of the opinion that it could not be deleted, it could have been reformulated to a claim dependent of claim 1.

Care should have been taken to avoid an undue repetition of features in the claims. This would again have rendered the claims unclear (Article 6 PCT).

2. Claim 26 could be interpreted as referring to a separate different embodiment of the invention and could therefore have been left independent.

It should, however, have been made explicitly clear in the description that there is more than one embodiment, the statement of which should have included a reference to the respective independent claims (Article 6 PCT).

3. It is clear from the description that the feature that there is only a single coupling which is controlled to connect the gear sets to the rotational members is essential to the definition of the invention

Since the independent claims 1, 25 and 26 do not contain this feature they do not meet the requirement following from Article 6 PCT taken in combination with Rule 6.3(b) PCT that any independent claim must contain all the technical features essential to the definition of the invention.